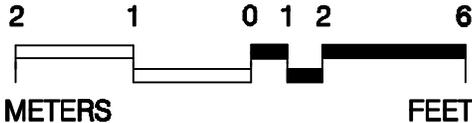
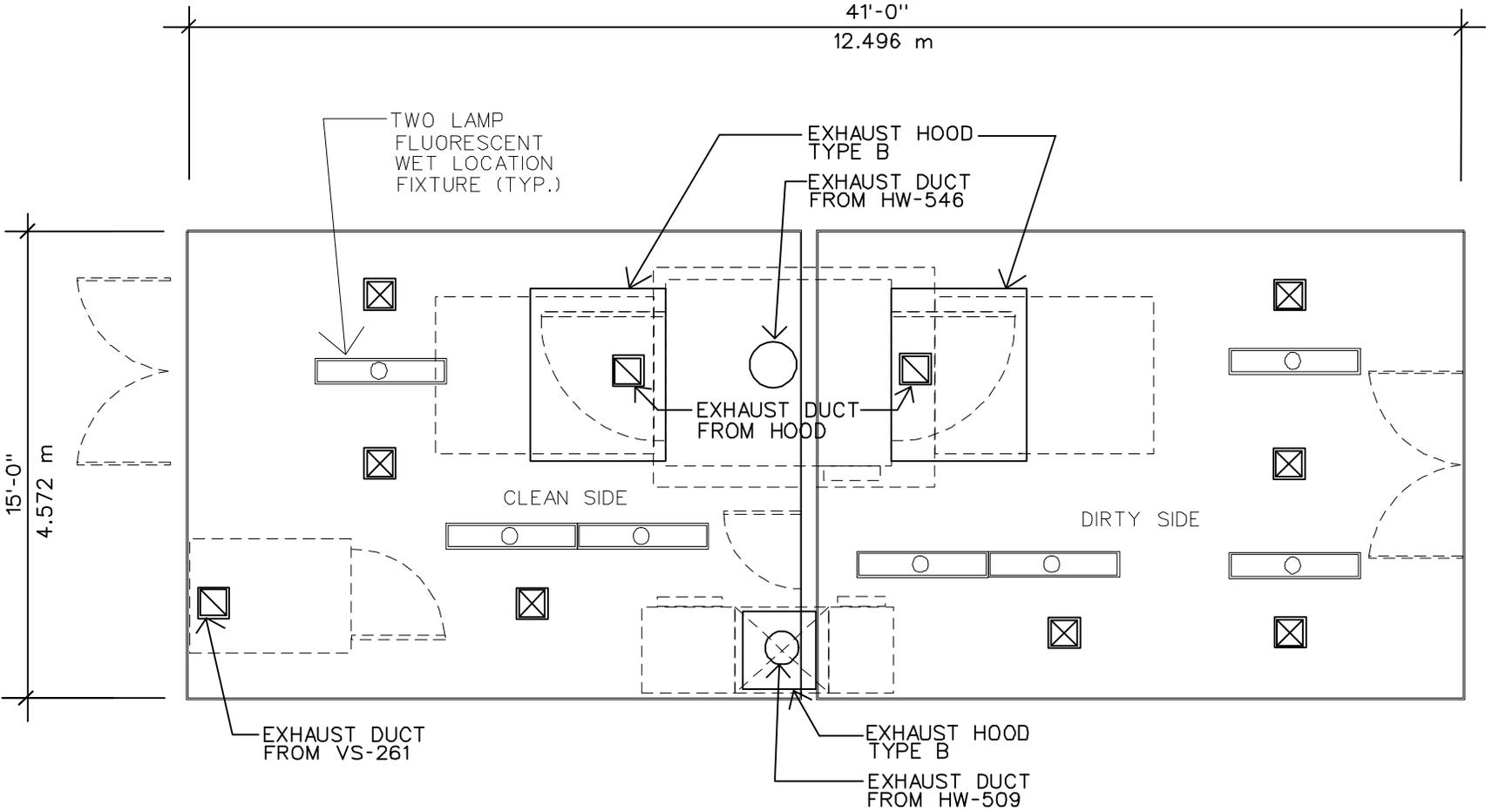


Cage Wash Room



Reflected Ceiling Plan

615 NSF
57.135 m²



NOTE: EXHAUST HOODS TO BE LOCATED AT BOTH ENDS OF CAGE & RACK WASHER.

NOTE: FOR ALL SD (LIGHTING) EQUIPMENT SEE H-08-04 VOL.4

26 February 1993

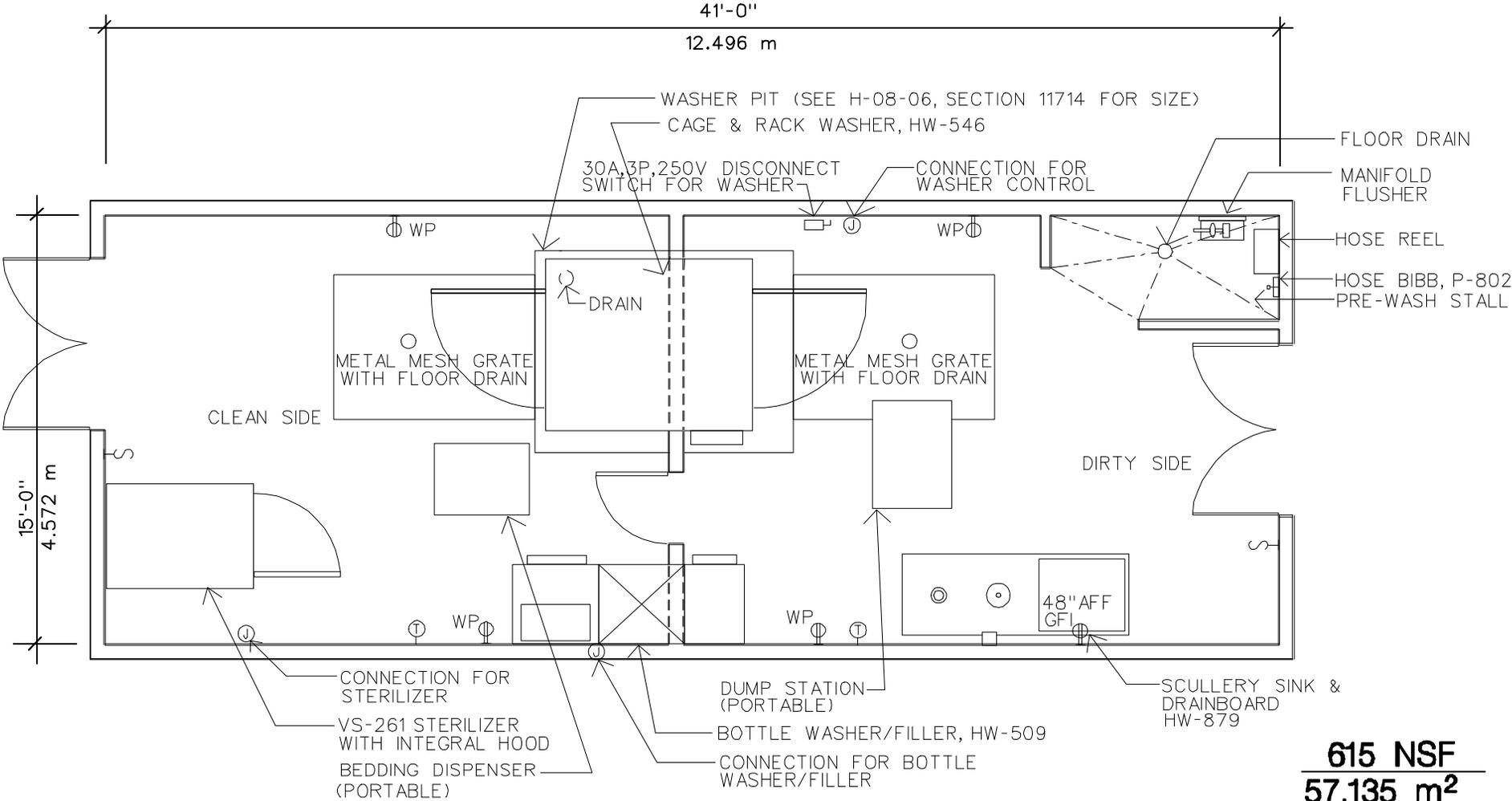
NOTE: FOR ALL VS AND HW EQUIPMENT SEE H-08-06

NOTE: FOR ALL P EQUIPMENT SEE H-08-04 VOL.1

NOTE: PROVIDE ONE GROUND FAULT INTERRUPTER (GFI) RECEPTACLE, TO SUBFEED OTHER RECEPTACLES.

NOTE: DIMENSIONS OF PARTITION AND WASHER PIT SHOULD BE DETERMINED AFTER THE EQUIPMENT HAS BEEN SELECTED TO INSURE A TIGHT FIT.

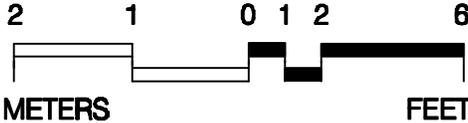
NOTE: A CABINET STYLE WASHER MAY REPLACE THE BOTTLE WASHER/FILLER.



615 NSF
57.135 m²

Cage Wash Room

Equipment & Utility Plan



Cage Wash Room

Design Standards

ARCHITECTURAL

Floor Area	615 NSF	Wall Finish	CMU (SC)
Ceiling	PCP	Wainscot	-
Ceiling Height	9'-6"	Base	ERF
Slab Depression	12"-14"	Floor Finish	ERF
Notes:		Lead Lining	-

*SEE H-08-3 CS 5-2

SPECIAL EQUIPMENT

HW-509 BOTTLE WASHER/FILLER
 HW-546 CASE AND RACK WASHER
 VS-261 STERILIZER

ELECTRICAL

Lighting

General	30 FC, 1.5 W/SF
Special	-
Emergency	-

Notes:

*HW-546: 30 A, 250 V, 3 PHASE
 HW-509: 10 A, 120 V, 1 PHASE
 VS-261: 25 A, 120 V

COMMUNICATIONS

Telephone	-	ADP	-
Intercom	-	Radio	-
Public Address	-	Other	-

Notes:

HEATING, VENTILATING AND AIR CONDITIONING

AC Load Lights	1.3 W/SF--1.2 W/SF
AC Load Equipment	4.7 W/SF--8.4 W/SF
Number of People	3--2
Noise Criteria	NC-40
Room Pressure	NEGATIVE--POSITIVE
Dry Bulb Temp Cooling (F)	78
Dry Bulb Temp Heating (F)	72
Minimum Air Changes per Hour	15 (SA)
Minimum % Outside Air	100
100% Exhaust Air	YES
Special Exhaust	YES*
Steam	YES*
Relative Humidity - Cooling	50 %
Relative Humidity - Heating	30 %

Notes:

(DIRTY--CLEAN) AREA VALUES ARE SHOWN SEPARATELY

*HW-546, HW-509, VS-261: SEE H-08-6 FOR STEAM, HEAT GAIN
 AND EXH CAPACITIES

USE STAINLESS STEEL EXHAUST DUCTWORK WHERE EXPOSED

PLUMBING AND MEDICAL GASES

Sanitary Drain	YES	Cold Water	YES
Acid Waste	-	Hot Water	YES
Silver Recovery	-	Reagent Water	-
Medical Air	-	Laboratory Air	-
Medical Vacuum	-	Laboratory Vacuum	-
Oxygen	-	Fuel Gas	-
Nitrous Oxide	-	Anesthesia Evac	-

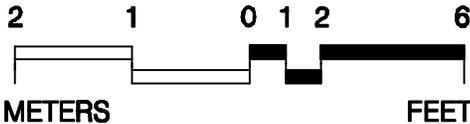
Notes:

Cage Wash Room

Equipment Guide List

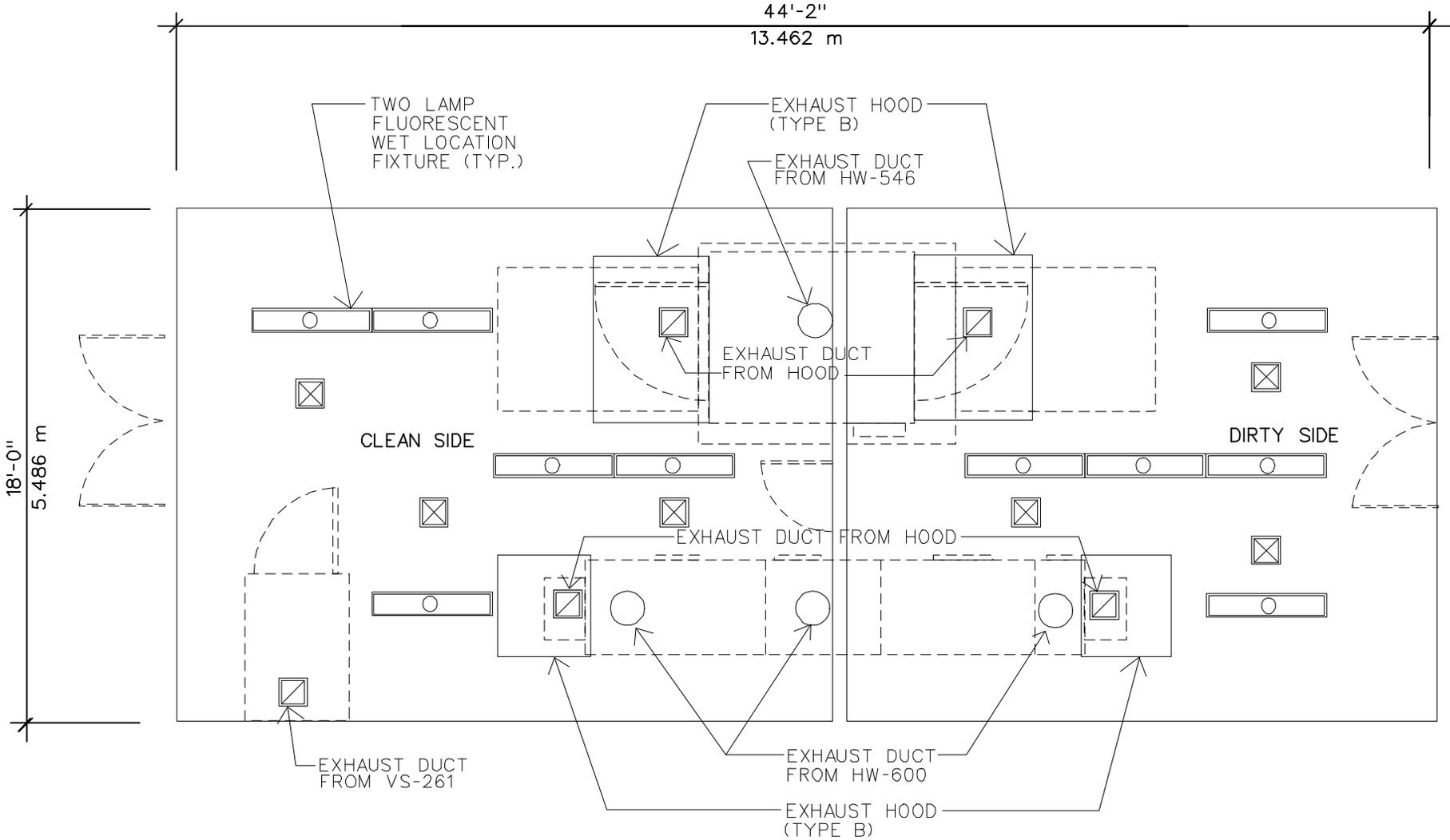
SYMBOL	QTY	AI	DESCRIPTION
			THE NUMBER, SIZES AND TYPE OF AUTOMATIC CAGE WASHERS USED WILL BE DETERMINED ON AN INDIVIDUAL BASIS.
HW-546	AR	CC	CAGE AND RACK WASHER, PIT MOUNTED, FLOOR LEVEL LOADING, PASS THROUGH, APPROX., OVERALL DIMENSIONS, 82" X 99" X 102" (H-08-1 & H-08-6, MCS 11714)
	AR	CC	HOOD, EXHAUST, OVER WASHER (H-08-1, MCS 15822)
			ONE IS TO BE PROVIDED OVER THE ENTRANCE AND ONE OVER THE EXIT FOR HW-546 AND FOR HW-600.
HW-600	AR	CC	CAGE/BOTTLE WASHER, TUNNEL TYPE, 3'-4" WIDE X 4'-9" OR 5'-10" HIGH AND 20'-0" LONG, WITH TUNNEL-LIKE STRUCTURE (H-08-1 & H-08-6, MCS 11714)
			THE NUMBER, SIZES AND TYPE OF TUNNEL, CAGE WASHERS USED WILL BE DETERMINED ON AN INDIVIDUAL BASIS.
HW-879	1	CC	ANIMAL CAGE SCULLERY SINK AND DRAINBOARD WITH DISPOSER, AR X 30" X 36" (H-08-1 & H-08-6, MCS 11620)
HW-509	1	CC	FEEDER BOTTLE WASHING AND FILLING STATION (TYPICAL) (H-08-1 & H-08-6, MCS 11714)
			-OR-
HW-542	1	CC	CAGE AND BOTTLE WASHER, PASS THROUGH, RECESSED (H-08-1 & H-08-6, MCS 11714)
			-OR-
HW-900	1	CC	FEEDER BOTTLE FILLER, 36"W X 18"D (H-08-1 & H-08-6, MCS 11620)
	1	VV	DISPENSER, BEDDING, APPROX., 40"W X 30"D X 84"H
P-802	1	CC	HOSE BIBB, COMBINATION FAUCET, WALL MOUNTED, CONCEALED SUPPLY PIPES (H-08-1, MCS 15450; H-08-4, SD 4.2)
	1	VV	HOSE REEL
			-OR-
	1	VV	MICRO-SPRAY, WALL MOUNTED, WITH 50 FT. HOSE (FOR EQUIPMENT CLEANING)
	AR	CC	DRAIN, FLOOR, WITH METAL MESH GRATE AS EXTENSION CAGE AND RACK PIT (PLUMBING DESIGN CRITERIA AND INSTRUCTIONS)
	AR	CC	ELECTRICAL, 3 PHASE, 60 CYCLE, 208/480 VOLTS, DIRECT CONNECTION FOR CAGE WASHERS (H-08-1, MCS 16140; H-08-3, CS 801-3)
	1	VV	STATION, DUMP, PORTABLE, 45"W X 33"D X 79"H
	1	CC	MANIFOLD FLUSHER, TO FLUSH OUT WATER LINES IN AUTOMATIC WATERING SYSTEM
	AR	CC	RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP, WITH WEATHERPROOF COVER PLATE (H-08-1, MCS 16140; H-08-3, CS 801-3)
	1	CC	RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP, WITH GROUND FAULT INTERRUPTER (H-08-1, MCS, 16140; H-08-3, CS 801-3)
			NOTE: PROVIDE ONE GROUND FAULT INTERRUPTER (GFI) RECEPTACLE, TO SUBFEED OTHER RECEPTACLES.
VS-261	1	CC	STERILIZER, SINGLE DOOR, CABINET ENCLOSED, CHAMBER, 24" X 36" X 48"/24 CU. FT., STYLE A (H-08-1 & H-08-6, MCS 11710)
			NOTE: IF SQUARE FOOTAGE DOES NOT ALLOW FOR A VS-261, STERILIZER, PLACE STERILIZER IN CLEAN CAGE STORAGE ROOM.

Cage Wash Room (with Tunnel Washer)

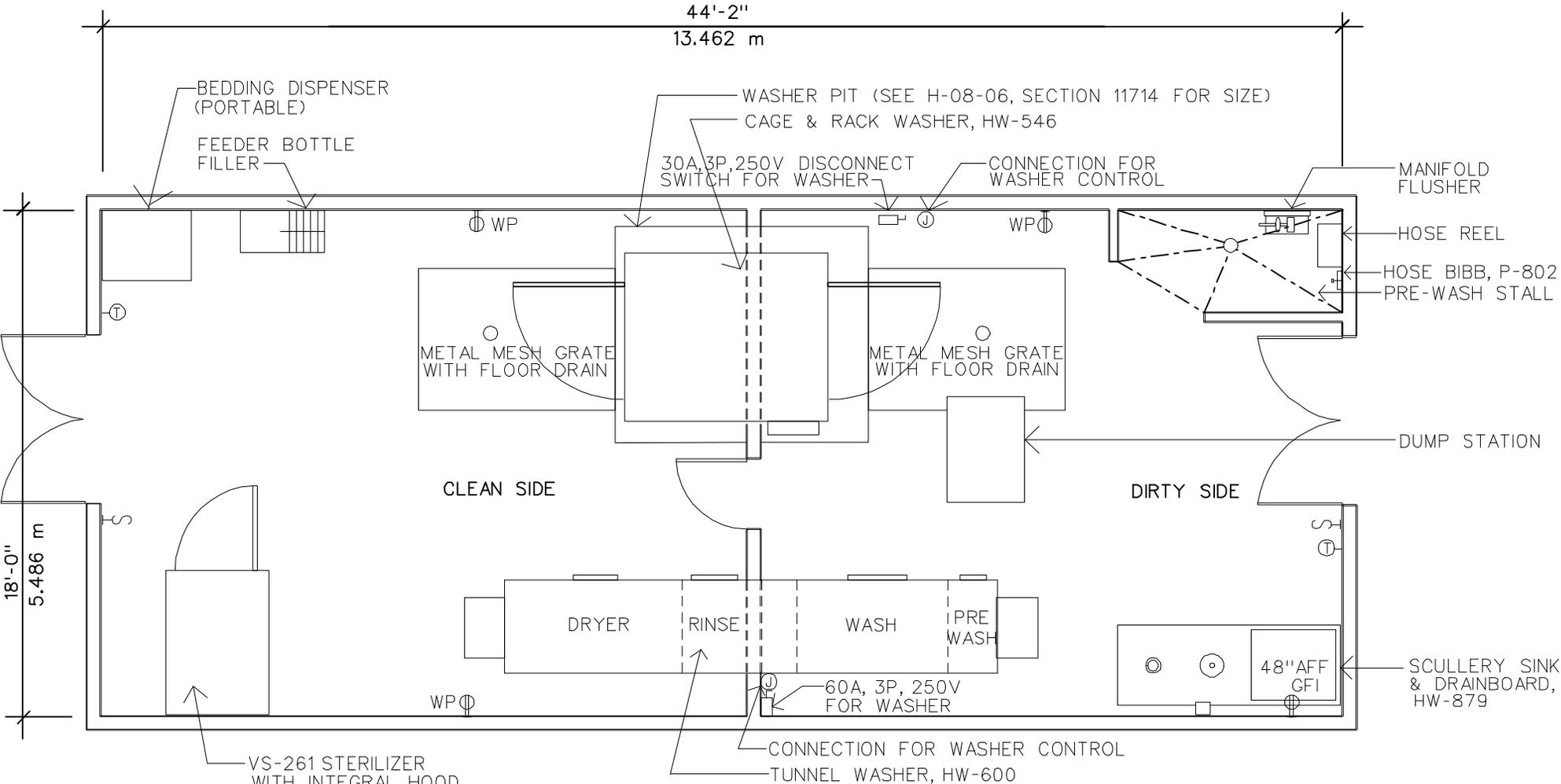


Reflected Ceiling Plan

795 NSF
73.857 m²



26 February 1993



NOTE: PROVIDE ONE GROUND FAULT INTERRUPTER (GFI) RECEPTACLE, TO SUBFEED OTHER RECEPTACLES.

NOTE: IN CAGE WASH ROOMS WITH TUNNEL WASHERS, A FEEDER BOTTLE WASHER/FILLER IS NOT NEEDED; USE ONLY A FEEDER BOTTLE FILLER

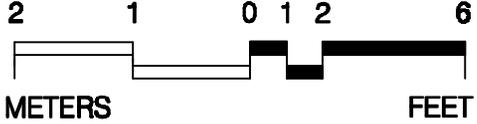
NOTE: EQUIPMENT GUIDE LIST SAME AS CAGE WASH ROOM

NOTE: FOR ALL VS AND HW EQUIPMENT SEE H-08-06

NOTE: FOR ALL P EQUIPMENT SEE H-08-04 VOL.1

NOTE: DIMENSIONS OF PARTITION AND WASHER PIT SHOULD BE DETERMINED AFTER THE EQUIPMENT HAS BEEN SELECTED TO INSURE A TIGHT FIT.

Cage Wash Room (with Tunnel Washer)



795 NSF
73.857 m²

Equipment & Utility Plan

Cage Wash Room (with Tunnel Washer)

Design Standards

ARCHITECTURAL

Floor Area	795 NSF	Wall Finish	CMU (SC)
Ceiling	PCP	Wainscot	-
Ceiling Height	9'-6"	Base	ERF
Slab Depression	12"-14"	Floor Finish	ERF
Notes:		Lead Lining	-

*SEE H-08-3 CS 5-2

SPECIAL EQUIPMENT

HW-546 CAGE AND RACK WASHER

HW-600 TUNNEL WASHER

VS-261 STERILIZER

ELECTRICAL

Lighting

General	30 FC, 1.5 W/SF
Special	-
Emergency	-

Notes:

Power

General	720 W
Special	*
Emergency	-

*HW-546: 30 A, 250 V, 3 PHASE

HW-600: MOTOR-208 V, 3 PHASE; CONTROLS-115 V, 1 PHASE

VS-261: 25 A, 120 V

COMMUNICATIONS

Telephone	-	ADP	-
Intercom	-	Radio	-
Public Address	-	Other	-

Notes:

HEATING, VENTILATING AND AIR CONDITIONING

AC Load Lights	1.2 W/SF--1.2 W/SF
AC Load Equipment	6.1 W/SF--5.6 W/SF
Number of People	4--3
Noise Criteria	NC-40
Room Pressure	NEGATIVE--POSITIVE
Dry Bulb Temp Cooling (F)	78
Dry Bulb Temp Heating (F)	72
Minimum Air Changes per Hour	15 (SA)
Minimum % Outside Air	100
100% Exhaust Air	YES
Special Exhaust	YES*
Steam	YES*
Relative Humidity - Cooling	50 %
Relative Humidity - Heating	30 %

Notes:

(DIRTY--CLEAN) AREA VALUES ARE SHOWN SEPARATELY

*HW-546: 1400 CFM EXH; 30-60 PSIG, 400 LB/HR STEAM

*HW-600: 3200 CFM EXH; 50-100 PSIG, 1300 LB/HR STEAM

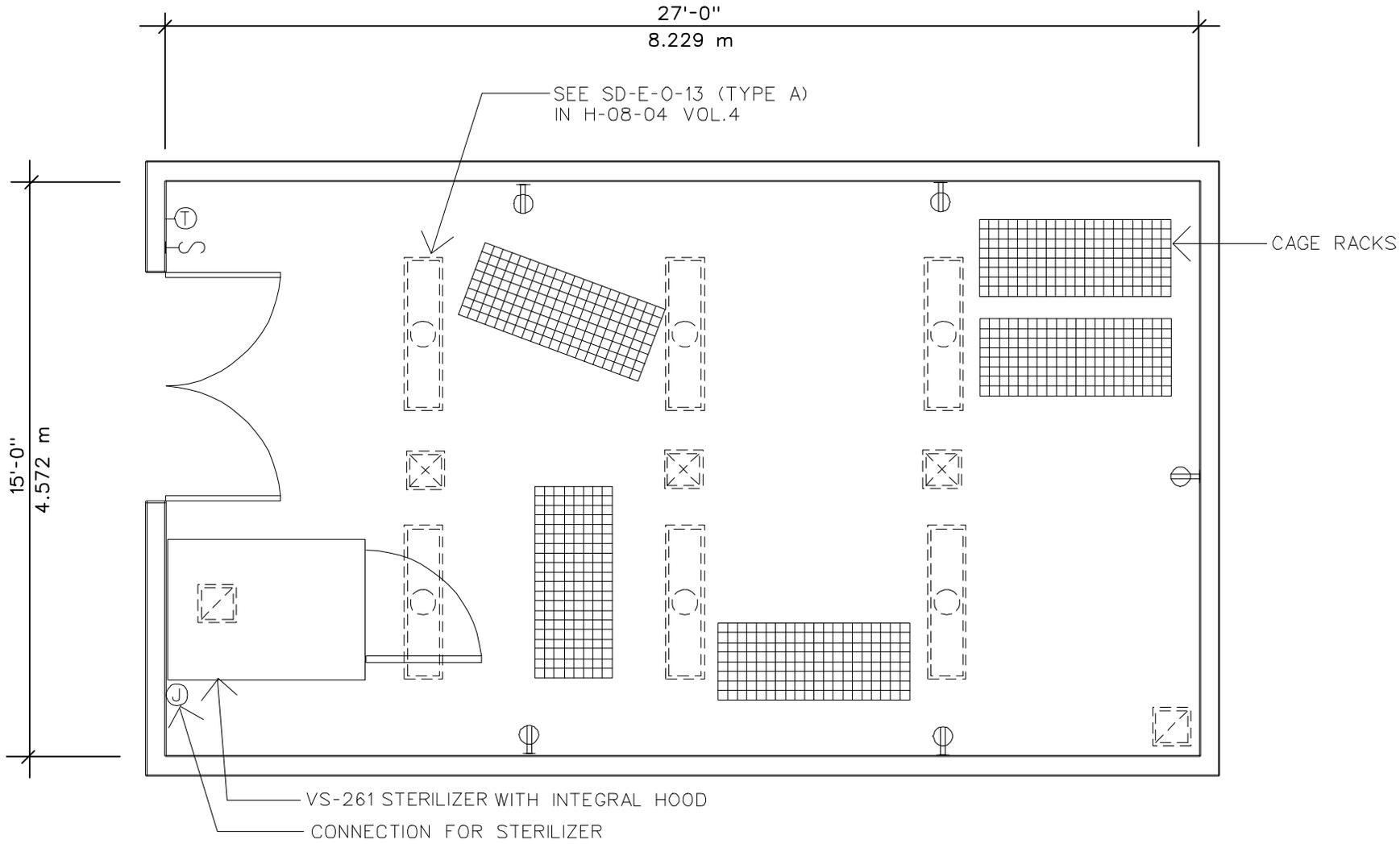
*VS-261: SEE H-08-6 FOR STEAM, HEAT GAIN & EXH CAPACITIES
USE STAINLESS STEEL EXHAUST DUCTWORK WHERE EXPOSED

PLUMBING AND MEDICAL GASES

Sanitary Drain	YES	Cold Water	YES
Acid Waste	-	Hot Water	YES
Silver Recovery	-	Reagent Water	-
Medical Air	-	Laboratory Air	-
Medical Vacuum	-	Laboratory Vacuum	-
Oxygen	-	Fuel Gas	-
Nitrous Oxide	-	Anesthesia Evac	-

Notes:

26 February 1993

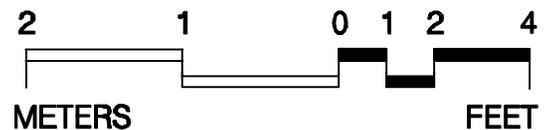


NOTE: LOCATE STERILIZER IN CLEAN CAGE STORAGE ROOM ONLY IF SQUARE FOOTAGE IN CAGE WASH ROOM DOES NOT ALLOW FOR STERILIZER

NOTE: FOR ALL VS EQUIPMENT SEE H-08-06

405 NSF
37.625 m²

Clean Cage Storage



Equipment & Utility Plan

Clean Cage Storage Room

Design Standards

ARCHITECTURAL

Floor Area	405 NSF	Wall Finish	CMU (SC)
Ceiling	PCP	Wainscot	-
Ceiling Height	9'-0"	Base	ERF
Slab Depression	-	Floor Finish	ERF
Notes:		Lead Lining	-

SPECIAL EQUIPMENT

VS-261 STERILIZER

ELECTRICAL

Lighting

General	20 FC, 1.0 W/SF
Special	-
Emergency	-

Notes:

Power

General	900 W
Special	*
Emergency	-

*VS-261: 25 A, 120 V

COMMUNICATIONS

Telephone	-	ADP	-
Intercom	-	Radio	-
Public Address	-	Other	-

Notes:

HEATING, VENTILATING AND AIR CONDITIONING

AC Load Lights	1.6 W/SF
AC Load Equipment	1.2 W/SF*
Number of People	3
Noise Criteria	NC-40
Room Pressure	POSITIVE
Dry Bulb Temp Cooling (F)	78
Dry Bulb Temp Heating (F)	72
Minimum Air Changes per Hour	4 (SA)
Minimum % Outside Air	100
100% Exhaust Air	YES
Special Exhaust	YES*
Steam	YES*
Relative Humidity - Cooling	50 %
Relative Humidity - Heating	30 %

Notes:

*VS-261: SEE H-08-6 FOR STEAM, HEAT GAIN, EXH CAPACITIES

PLUMBING AND MEDICAL GASES

Sanitary Drain	YES	Cold Water	YES
Acid Waste	-	Hot Water	-
Silver Recovery	-	Reagent Water	-
Medical Air	-	Laboratory Air	-
Medical Vacuum	-	Laboratory Vacuum	-
Oxygen	-	Fuel Gas	-
Nitrous Oxide	-	Anesthesia Evac	-

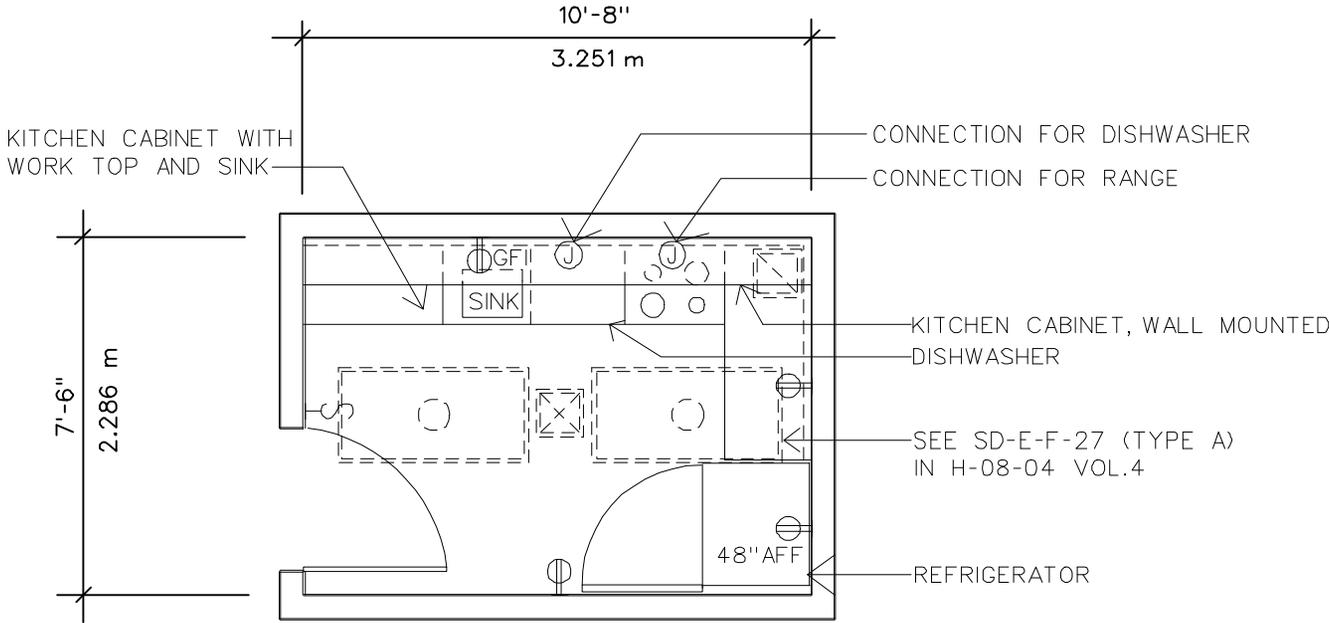
Notes:

26 February 1993

Clean Cage Storage Room

Equipment Guide List

SYMBOL	QTY	AI	DESCRIPTION
AR		VV	CAGES
AR		VV	RACKS, CAGE
AR		CC	RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP (H-08-1, MCS 16140; H-08-3, CS 801-3)
			NOTE: LOCATE VS-261, STERILIZER IN CLEAN CAGE STORAGE ROOM ONLY IF SQUARE FOOTAGE OF CAGE WASH ROOM DOES NOT ALLOW FOR STERILIZER.

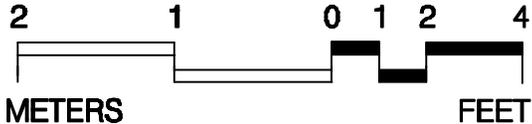


NOTE: OUTLETS AT COUNTER LOCATION ARE 48" ABOVE FINISHED FLOOR

NOTE: THIS PLAN APPLICABLE ONLY WHEN ROOM IS APPROVED BY VHA

80 NSF
7.432 m²

Diet Kitchen



Equipment & Utility Plan

Diet Kitchen

Design Standards

ARCHITECTURAL

Floor Area	80 NSF	Wall Finish	CMU (SC)
Ceiling	PL	Wainscot	-
Ceiling Height	9'-0"	Base	ERF
Slab Depression	-	Floor Finish	ERF
Notes:		Lead Lining	-

SPECIAL EQUIPMENT

REFRIGERATOR, KITCHEN UNIT

ELECTRICAL

Lighting

General	50 FC, 2.5 W/SF
Special	-
Emergency	-

Power

General	900 W
Special	*
Emergency	REFRIGERATOR 1200W

Notes:

*RANGE: 208 V, 40 A, 1 PHASE; DISHWASHER: 120 V, 1.5 KW;
REFRIGERATOR: 1200 W

COMMUNICATIONS

Telephone	-	ADP	-
Intercom	-	Radio	-
Public Address	-	Other	-

Notes:

HEATING, VENTILATING AND AIR CONDITIONING

AC Load Lights	2.5 W/SF
AC Load Equipment	28.0 W/SF
Number of People	1
Noise Criteria	NC-50
Room Pressure	NEGATIVE
Dry Bulb Temp Cooling (F)	78
Dry Bulb Temp Heating (F)	72
Minimum Air Changes per Hour	-
Minimum % Outside Air	100
100% Exhaust Air	YES
Special Exhaust	-
Steam	-
Relative Humidity - Cooling	50 %
Relative Humidity - Heating	30 %

Notes:

PLUMBING AND MEDICAL GASES

Sanitary Drain	YES	Cold Water	YES
Acid Waste	-	Hot Water	YES
Silver Recovery	-	Reagent Water	-
Medical Air	-	Laboratory Air	-
Medical Vacuum	-	Laboratory Vacuum	-
Oxygen	-	Fuel Gas	-
Nitrous Oxide	-	Anesthesia Evac	-

Notes:

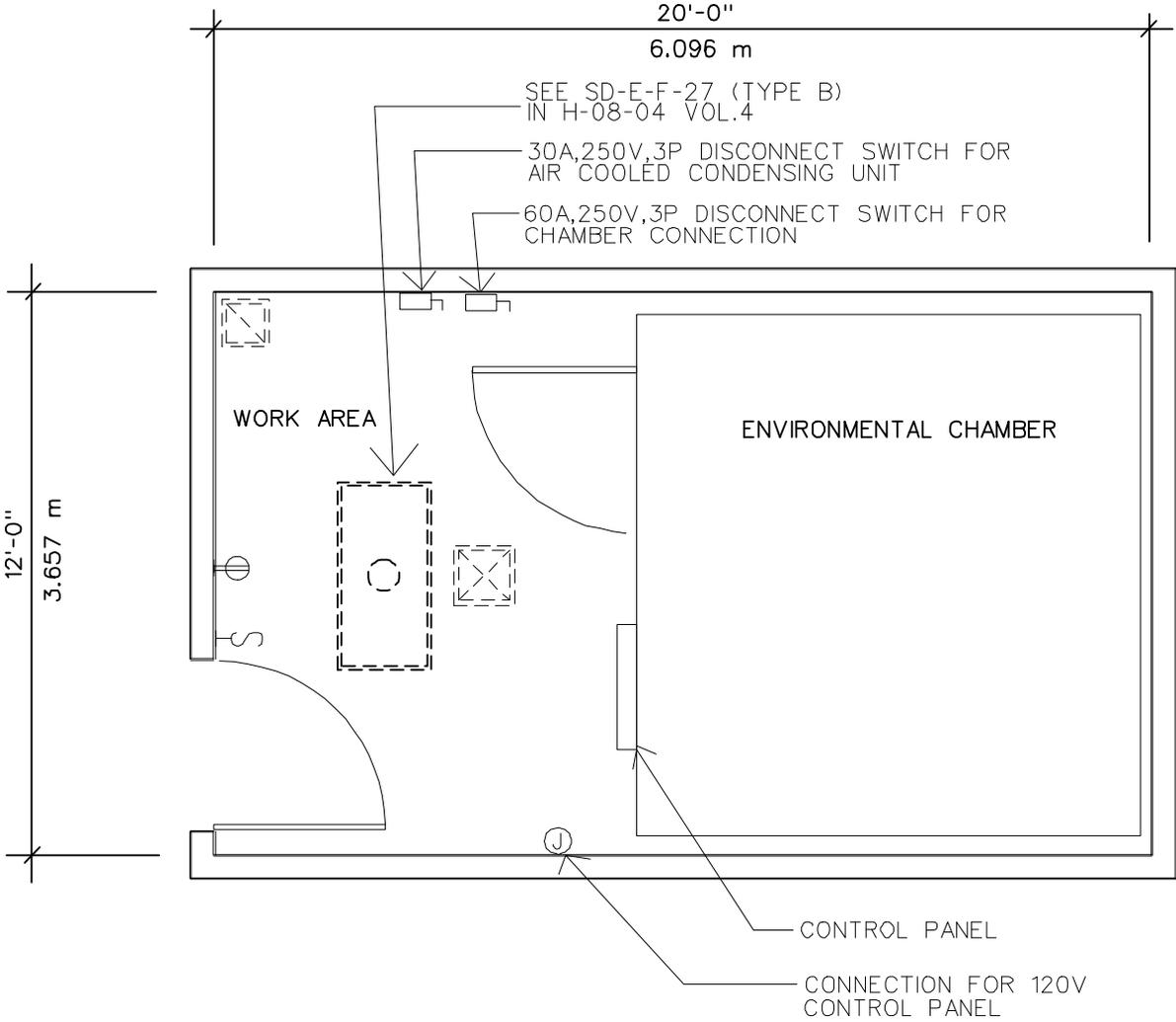
26 February 1993

Diet Kitchen

Equipment Guide List

SYMBOL	QTY	AI	DESCRIPTION
			NOTE: APPLICABLE ONLY WHEN APPROVED BY VHA.
	1	CC	CABINET, KITCHEN, BASE, WITH WORK TOP AND SINK, DOMESTIC (H-08-1, MCS 11450)
	1	CC	CABINET, KITCHEN, WALL MOUNTED, DOMESTIC (H-08-1, MCS 11450)
	1	VV	RANGE, ELECTRIC, 4 BURNERS, FRONT CONTROLS, DOMESTIC, 208 VOLT, 40 AMP, SINGLE PHASE
	1	VV	REFRIGERATOR - FREEZER, DOMESTIC, APPROX. 31"W X 28"D X 66"H, 120 VOLT, 20 AMP
	1	CC	DISHWASHER, HOUSEHOLD TYPE, UNDER COUNTER, 120 VOLT, 1.5 KW (H-08-1, MCS 11450)
	1	CC	RECEPTACLE, ELECTRICAL, 208 VOLT, 40 AMP (H-08-1, MCS 16140; H-08-3, CS 801-3)
	AR	CC	RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP (H-08-1, MCS 16140; H-08-3, CS 801-3)
	1	CC	RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP, WITH GROUND FAULT INTERRUPTER (H-08-1, MCS, 16140; H-08-3, CS 801-3)

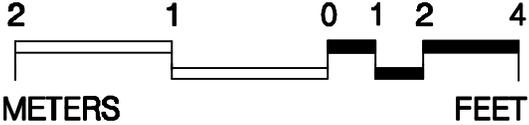
26 February 1993



240 NSF
<hr/>
22.296 m ²

NOTE: THIS PLAN APPLICABLE ONLY WHEN ROOM IS APPROVED BY VHA

Environmental Laboratory



Equipment & Utility Plan

Environmental Laboratory

Design Standards

ARCHITECTURAL

Floor Area	240 NSF	Wall Finish	CMU (SC)
Ceiling	PL	Wainscot	-
Ceiling Height	9'-0"	Base	ERF
Slab Depression	-	Floor Finish	ERF
Notes:		Lead Lining	-

SPECIAL EQUIPMENT

ENVIRONMENTAL CHAMBER

ELECTRICAL

Lighting

General	50 FC, 2.5 W/SF*
Special	A/R FOR CHAMBER
Emergency	-

Notes:

*WORK AREA

Power

General	180 W
Special	**
Emergency	-

**AIR COOLED CONDENSING UNIT: 30 A, 208 V, 3 PHASE
 CHAMBER: 60 A, 208 V, 3 PHASE
 CONTROL PANEL: 120 V

COMMUNICATIONS

Telephone	-	ADP	-
Intercom	-	Radio	-
Public Address	-	Other	-

Notes:

HEATING, VENTILATING AND AIR CONDITIONING

AC Load Lights	2.2 W/SF
AC Load Equipment	2.0 W/SF
Number of People	1
Noise Criteria	NC-40
Room Pressure	(0)
Dry Bulb Temp Cooling (F)	78
Dry Bulb Temp Heating (F)	72
Minimum Air Changes per Hour	-
Minimum % Outside Air	100
100% Exhaust Air	YES
Special Exhaust	-
Steam	-
Relative Humidity - Cooling	50 %
Relative Humidity - Heating	30 %

Notes:

HVAC IN WORK AREA ONLY; SEE EQUIPMENT SPECIFICATIONS FOR ENVIRONMENTAL CHAMBER

PLUMBING AND MEDICAL GASES

Sanitary Drain	-	Cold Water	-
Acid Waste	-	Hot Water	-
Silver Recovery	-	Reagent Water	-
Medical Air	-	Laboratory Air	-
Medical Vacuum	-	Laboratory Vacuum	-
Oxygen	-	Fuel Gas	-
Nitrous Oxide	-	Anesthesia Evac	-

Notes:

26 February 1993

Environmental Laboratory

Equipment Guide List

SYMBOL	QTY	AI	DESCRIPTION
			NOTE: APPLICABLE ONLY WHEN APPROVED BY VHA.
	1	VV	CONTROL CHAMBER, WITH ACCESSORIES AS REQUIRED
AR	CC		ELECTRICAL, 208 VOLT, 60 AMP, 3 PHASE, DIRECT CONNECTION FOR CHAMBER (H-08-1, MCS 16140)
AR	CC		ELECTRICAL, 208 VOLT, 20 AMP, 3 PHASE, DIRECT CONNECTION FOR AIR COOLED CONDENSING UNIT (H-08-1, MCS 16140)
AR	CC		RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP (H-08-1, MCS 16140; H-08-3, CS 801-3)